

Learning Objectives:

Chemistry Laboratory students will develop the ability to use proper scientific methodology and laboratory technique in the investigation of chemical principles through experiment. GE5

Chemistry Laboratory students will develop the ability to critically evaluate and solve problems through the application of appropriate chemistry principles. GE3

Chemistry Laboratory will be able to coherently organize and present chemical information through written reports. GE1a,b

Class Material:

- Book: Lab Manual For General Chemistry One
- Scantrons for Quiz and Final
- Safety Goggles-no glasses (Available at the bookstore)
- **Lab Fees Receipt:** You must pay the \$20.00 lab Supply Fee to the Book Store before will be allowed to check into the lab and before you will allowed to perform any experiments.
- Weekly announcements will be given through McNeese blackboard.

Course Grade:

A \geq 90% B \geq 80% C \geq 70% D \geq 60% F < 60%

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| • Quiz (Laboratory handbook for General Chemistry) | 10% |
| • Lab Results and Reports | 70% |
| • Written Final Exam | <u>20%</u> |
| | 100% |

Safety Rules: Read and sign *Laboratory Rules and Contract* pg 1 in Lab Manual.

Attendance: 1) You are required to attend the lab period in its entirety. Attendance will be taken for each class period. Ten points of the weekly lab grade comes from attendance and performance. Reports will be docked each week they are turned in late.

✍ **YOU MUST SIGN IN DURING LECTURE AND OUT AFTER LAB.** If you do not sign in and out you will be considered absent for that lab period and will receive a zero you the week.

2) You are allowed to drop one lab grade for the semester. In addition you will be able to make up one lab if you have a valid MSU excuse. Make up labs will be during your regular lab time during the week of Nov. 16th.

You must make arrangements with your TA before that week.

3) If an "I" is merited for health or other reasons, the student must discuss those reasons with Ms. McDonald. Lab reports, data sheets and notebooks are due at the beginning of the next lab period.

Diversity Statement: Students should visit the MSU webpage at <http://www.mcneese.edu/policy/diversity.htm> for information about diversity awareness and sexual harassment policies and procedures.

ADA Statement: Any student with a disability is encouraged to contact the Office of Services for Students with Disabilities in Drew Hall, Room 200, (337) 475-5916. It is each student's responsibility to register with the Office of Services for Students with Disabilities when requesting a reasonable accommodation.

Fire Drill Syllabus Statement

McNeese State University will periodically conduct fire drills. In the event of a fire drill or a related building emergency, all persons in a classroom are required to exit the building using posted escape routes or the Area of Refuge for individuals with disabilities.

Lab Reports:

- ❖ The procedure for each lab **must be written before** you start your lab. Your TA will check and initial your procedure upon arrival in the laboratory.
- ✎ All Lab activities **MUST** have a conclusion.
Guidelines for writing a conclusion are on page 5 in Lab Manual.
- ❖ Each lab has a page of questions. Answer the questions on the page provided in your lab manual that are turned into your instructor.

Grading Key for ALL Lab Activities.

	Points
1. Attendance and Performance	10
Being on time for lecture part of the lab	
Participating in the lab activity	
Turn in completed lab report on time.	
2. Lab written <i>before</i> lab activity	5
Title,	
Date,	
Purpose/objective	
Procedure	
Blank data tables	
4. Report:	15
Complete	
Neat	
5. Correctness and completeness of Graphs, Data and Calculations	30
6. Questions	20
7. Conclusion (4 point will be for writing)	<u>20</u>
	100

Please note cheating is at serious offense

Students are expected to adhere to the MSU Academic Integrity Policy which is located at www.mcneese.edu/integrity."

Fall 2009 Lab 101+/121+/103L Schedule

Week & Dates	Exp. No. Experiment Title
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Aug 24	Introduction	Blackboard Information TSG Quiz Information –Review on Blackboard
Aug 31	Lab Handbook For Gen. Chem.	MUST HAVE \$20.00 fee Receipt from Bookstore Safety Rules and Contact from Lab Manual (Page 1)
	TSG Quiz	
Sept. 8	Lab 1: Accuracy & Precision Lab Chp1 Handling numbers, accuracy and precision, Scientific notation & Significant figures	
Sept. 14	Lab 2: Statistics Lab-Penny Lab density, statistical test	
Sept. 21	Lab 3: Percent Water in Hydrated Salt chapter 2 page 50	
Sept. 28	Lab 4: Testing for Cations and Anions writing chemical formulas	
Oct. 5	Lab 5: Chemical Reactions: Periodic Properties reactivity of metals chapter 4 pg110	
Oct. 12	Lab 6: Beer's Law-Computer Assisted Lab dilution pg 115	
Oct. 19	Lab 7: Acid/Base titration- titration page 119	
Oct. 26	Lab 8: Acid/Base titration using Computer Interface	
Nov. 2	Lab 9: Gas Law: Automobile Air Bags ideal gas law	
Nov. 9	Lab Final	
Nov. 16	Make UP Lab	
Nov. 23	HOLIDAY	
Oct. 29	Last Date to drop If you drop the lecture class you must drop the lab.	